

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/032,28/	
Source:	OIPE	
Date Processed by STIC:	6-14-02	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:

 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area,
 7th Floor, Examiner Name,
 Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Does Not Comply Corrected Diskette Needed



OIPE

RAW SEQUENCE LISTING DATE: 06/14/2002 PATENT APPLICATION: US/10/032,281 TIME: 10:22:43

Input Set : A:\0399.1212-005.txt

Output Set: N:\CRF3\06142002\J032281.raw

```
4 <110> APPLICANT: Wyrick, John
              Young, Richard A.
      5
      6
              Ren, Bing
     7
              Robert, Francois
              Simon, Itamar
     8
     10 <120> TITLE OF INVENTION: Genome-Wide Location and Function of DNA
             Binding Proteins
     13 <130> FILE REFERENCE: 0399.1212-005
     15 <140> CURRENT APPLICATION NUMBER: 10/032,281
     16 <141> CURRENT FILING DATE: 2001-12-21
     18 <150> PRIOR APPLICATION NUMBER: 09/654,409
     19 <151> PRIOR FILING DATE: 2000-09-01
     21 <150> PRIOR APPLICATION NUMBER: PCT/US00/24358
     22 <151> PRIOR FILING DATE: 2000-09-01
     24 <150> PRIOR APPLICATION NUMBER: 60/151,972
     25 <151> PRIOR FILING DATE: 1999-09-01
     27 <150> PRIOR APPLICATION NUMBER: 60/257,455
     28 <151> PRIOR FILING DATE: 2000-12-21
     30 <150> PRIOR APPLICATION NUMBER: 60/323,620
     31 <151> PRIOR FILING DATE: 2001-09-20
     33 <160> NUMBER OF SEQ ID NOS: 32
     35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     37 <210> SEQ ID NO: 1
     38 <211> LENGTH: 12
     39 <212> TYPE: DNA
     40 <213> ORGANISM: Artificial Sequence
     42 <220> FEATURE:
     43 <223> OTHER INFORMATION: Mbp 1 consensus binding motifs
W--> 45 <221> NAME/KEY: misc_feature
     46 <222> LOCATION: 2, 4, 12
     47 <223> OTHER INFORMATION: n = A, T, C or G
W--> 49 <400> 1
                                                                           12
W--> 50 wnrnrwcgcg hn
     52 <210> SEQ ID NO: 2
     53 <211> LENGTH: 12
     54 <212> TYPE: DNA
     55 <213> ORGANISM: Artificial Sequence
     57 <220> FEATURE:
     58 <223> OTHER INFORMATION: Swi4 consensus binding motifs
W--> 60 <221> NAME/KEY: misc_feature
     61 <222> LOCATION: 1, 2, 3, 4
     62 <223> OTHER INFORMATION: n = A, T, C or G
W--> 64 <400> 2
```

DATE: 06/14/2002

TIME: 10:22:43

Input Set : A:\0399.1212-005.txt Output Set: N:\CRF3\06142002\J032281.raw 12 W--> 65 nnnncrcsaa aw 67 <210> SEQ ID NO: 3 68 <211> LENGTH: 24 , not n's 69 <212> TYPE: DNA 70 <213> ORGANISM: Artificial Sequence 72 <220> FEATURE: 73 <223> OTHER INFORMATION: Mcm1/Fkh2 consensus binding motifs W--> 75 <221> NAME/KEY: misc_feature - seguence is only 24 bisses Long, 76 <222> LOCATION: 1, 2, 3, 4, 11, 12, 13, 21/27 77 <223> OTHER INFORMATION: n = A,T,C or G W--> 79 <400> 3_ W--> 80 nnnnyynnnn) nngsnaawwn ryma 82 <210> SEQ ID NO: 4 all is must be included 83 <211> LENGTH: 16 84 <212> TYPE: DNA 85 <213> ORGANISM: Artificial Sequence 87 <220> FEATURE: 88 <223> OTHER INFORMATION: Mcml consensus binding motifs W--> 90 <221> NAME/KEY: misc_feature 91 <222> LOCATION: 7, 11 92 <223> OTHER INFORMATION: n = A, T, C or G W--> 94 < 400 > 416 W--> 95 wwtwccnraw nrrgwa 97 <210> SEQ ID NO: 5 98 <211> LENGTH: 9 99 <212> TYPE: DNA 100 <213> ORGANISM: Artificial Sequence 102 <220> FEATURE: 103 <223> OTHER INFORMATION: Ace2 consensus binding motifs W--> 105 <221> NAME/KEY: misc_feature 106 <222> LOCATION: (1)...(9) 107 <223> OTHER INFORMATION: n = A, T, C or G W--> 109 <400> 5 W--> 110 rancmmgca 112 <210> SEQ ID NO: 6 113 <211> LENGTH: 16 114 <212> TYPE: DNA 115 <213> ORGANISM: Artificial Sequence 117 <220> FEATURE: 118 <223> OTHER INFORMATION: Ace2 consensus binding motifs W--> 120 <221> NAME/KEY: misc_feature 121 <222> LOCATION: 6, 7, 8, 11, 14, 16 122 <223> OTHER INFORMATION: n = A, T, C or G

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,281

16

W--> 124 <400> 6

W--> 125 agggannnwk nwrnkn

127 <210> SEQ ID NO: 7 128 <211> LENGTH: 14 129 <212> TYPE: DNA

130 <213> ORGANISM: Artificial Sequence

PATENT APPLICATION: US/10/032,281

DATE: 06/14/2002
TIME: 10:22:43

Input Set : A:\0399.1212-005.txt

Output Set: N:\CRF3\06142002\J032281.raw

```
132 <220> FEATURE:
     133 <223> OTHER INFORMATION: Swi5 consensus binding motifs
W--> 135 <221> NAME/KEY: misc feature
     136 <222> LOCATION: 2, 3, 4, 7, 8
     137 <223> OTHER INFORMATION: n = A, T, C or G
W--> 139 <400> 7
W--> 140 gnnnggnnsc agma
                                                                            14
     142 <210> SEQ ID NO: 8
     143 <211> LENGTH: 13
     144 <212> TYPE: DNA
     145 <213> ORGANISM: Artificial Sequence
     147 <220> FEATURE:
     148 <223> OTHER INFORMATION: Swi5 consensus binding motifs
W--> 150 <221> NAME/KEY: misc_feature
     151 <222> LOCATION: 2, 3, 8, 12
     152 <223> OTHER INFORMATION: n = A, T, C or G
W--> 154 <400> 8
W--> 155 gnnatgrntg gnk
                                                                            13
     157 <210> SEQ ID NO: 9
     158 <211> LENGTH: 8
     159 <212> TYPE: DNA
    160 <213> ORGANISM: Artificial Sequence
    162 <220> FEATURE:
    163 <223> OTHER INFORMATION: Fkh1/Fkh2 consensus binding motifs
    165 <400> SEQUENCE: 9
    166 rtaaacaa
                                                                            8
    168 <210> SEQ ID NO: 10
    169 <211> LENGTH: 19
    170 <212> TYPE: DNA
    171 <213> ORGANISM: Artificial Sequence
    173 <220> FEATURE:
    174 <223> OTHER INFORMATION: Fkh1 consensus binding motifs
W--> 176 <221> NAME/KEY: misc_feature
     177 <222> LOCATION: 2, 3, 5, 7, 8, 9, 10, 12, 13, 14
     178 <223> OTHER INFORMATION: IT = A,T,C or G
W--> 180 <400> 10
W--> 181 rngsngsnnn gnnnssssy
                                                                            19
                                       these are not n's.
    183 <210> SEQ ID NO: 11
    184 <211> LENGTH: 12
    185 <212> TYPE: DNA
     186 <213> ORGANISM: Artificial Sequence
     188 <220> FEATURE:
    189 <223> OTHER INFORMATION: Fkh1 consensus binding motifs
W--> 191 <221> NAME/KEY: misc_feature
     192 <222> LOCATION: 5, 9, 11
    193 <223> OTHER INFORMATION: n = A, T, C or G
W--> 195 <400> 11
W--> 196 ttykngagaa nt
                                                                            12
     198 <210> SEQ ID NO: 12
```

RAW SEQUENCE LISTING DATE: 06/14/2002 PATENT APPLICATION: US/10/032,281 TIME: 10:22:43

Input Set : A:\0399.1212-005.txt

Output Set: N:\CRF3\06142002\J032281.raw

199 <211> LENGTH: 13 200 <212> TYPE: DNA 201 <213> ORGANISM: Artificial Sequence 203 <220> FEATURE: 204 <223> OTHER INFORMATION: Fkhl consensus binding motifs W--> 206 <221> NAME/KEY: misc_feature 207 <222> LOCATION: 3, 4, 12, 13 208 <223> OTHER INFORMATION:\ n = A,T,C or G W--> 210 <400> 12 W--> 211 kkcnsrssmk ssk ese are not n's 13 213 <210> SEQ ID NO: 13 214 <211> LENGTH: 67 215 <212> TYPE: DNA 216 <213> ORGANISM: Artificial Sequence 218 <220> FEATURE: 219 <223> OTHER INFORMATION: Z1372 MBP1 18 myc forward primer 221 <400> SEQUENCE: 13 222 ataagggcgc agaacagatc atcacaatct caaacgcgaa tagtcatgca tccggttctg 60 223 ctgctag 225 <210> SEQ ID NO: 14 226 <211> LENGTH: 67 227 <212> TYPE: DNA 228 <213> ORGANISM: Artificial Sequence 230 <220> FEATURE: 231 <223> OTHER INFORMATION: Z1372MBP1 18 myc backward primer 233 <400> SEQUENCE: 14 234 ctattttca gtatatggat acatgtaaag ttcctctatt tatgtatatt cctcgaggcc 60 67 235 agaagac 237 <210> SEQ ID NO: 15 238 <211> LENGTH: 67 239 <212> TYPE: DNA 240 <213> ORGANISM: Artificial Sequence 242 <220> FEATURE: 243 <223> OTHER INFORMATION: Z1335 SWI4 18 myc forward primer 245 <400> SEQUENCE: 15 246 acattgactc aaaattggac gatatagaaa aggatttgag ggcaaacgca tccggttctg 60 247 ctgctag 249 <210> SEQ ID NO: 16 250 <211> LENGTH: 67 251 <212> TYPE: DNA 252 <213> ORGANISM: Artificial Sequence 254 <220> FEATURE: 255 <223> OTHER INFORMATION: Z1335 SWI4 18 myc backward primer 257 <400> SEQUENCE: 16 258 aaaaactctg ataatatagt aaaaattatt ggtacattgt gaattaaaat cctcgaggcc 60 259 agaagac 261 <210> SEQ ID NO: 17

262 <211> LENGTH: 67 263 <212> TYPE: DNA RAW SEQUENCE LISTING DATE: 06/14/2002 PATENT APPLICATION: US/10/032,281 TIME: 10:22:43

Input Set : A:\0399.1212-005.txt

Output Set: N:\CRF3\06142002\J032281.raw

- 264 <213> ORGANISM: Artificial Sequence
- 266 <220> FEATURE:
- 267 <223> OTHER INFORMATION: Z1373 SWI6 18 myc forward primer
- 269 <400> SEQUENCE: 17
- 270 aagacattga cactgacgaa atgcaagatt ttttaaaaaa gcatgcttca tccggttctg 60
- 271 ctqctaq
- 273 <210> SEQ ID NO: 18
- 274 <211> LENGTH: 67
- 275 <212> TYPE: DNA
- 276 <213> ORGANISM: Artificial Sequence
- 278 <220> FEATURE:
- 279 <223> OTHER INFORMATION: Z1373 SWI16 18 myc backward primer
- 281 <400> SEQUENCE: 18
- 282 aataacttca aataaagtca taaaagttaa tgcaatgaaa tcacatgccc cctcgaggcc 60
- 283 agaagac 67
- 285 <210> SEQ ID NO: 19
- 286 <211> LENGTH: 67
- 287 <212> TYPE: DNA
- 288 <213> ORGANISM: Artificial Sequence
- 290 <220> FEATURE:
- 291 <223> OTHER INFORMATION: Z1448 FKH1 9 myc forward primer
- 293 <400> SEQUENCE: 19
- 294 catccatqqa cqtaacaaca aacqcaaacq tqaacaattc ctctctqagt tccqqttctq 60
- 295 ctgctag
- 297 <210> SEQ ID NO: 20
- 298 <211> LENGTH: 67
- 299 <212> TYPE: DNA
- 300 <213> ORGANISM: Artificial Sequence
- 302 <220> FEATURE:
- 303 <223> OTHER INFORMATION: Z1448 FKH1 9 myc backward primer
- 305 <400> SEQUENCE: 20
- 306 ctttgttctt tattgtttaa taatacatat gggttcgacg acgctgaatt cctcgaggcc 60
- 307 agaagac
- 309 <210> SEQ ID NO: 21
- 310 <211> LENGTH: 67
- 311 <212> TYPE: DNA
- 312 <213> ORGANISM: Artificial Sequence
- 314 <220> FEATURE:
- 315 <223> OTHER INFORMATION: Z1370 FKH2 18 myc forward primer
- 317 <400> SEQUENCE: 21
- 318 aggaactaat actagatacg gatggtgcaa agatcagtat tatcaacaac tccggttctg 60 319 ctgctag 67
- 321 <210> SEQ ID NO: 22
- 322 <211> LENGTH: 67
- 323 <212> TYPE: DNA
- 324 <213> ORGANISM: Artificial Sequence
- 326 <220> FEATURE:
- 327 <223> OTHER INFORMATION: Z1370 FKH2 18 myc backward primer
- 329 <400> SEQUENCE: 22

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/032,281

DATE: 06/14/2002 TIME: 10:22:44

Input Set : A:\0399.1212-005.txt

please check

Output Set: N:\CRF3\06142002\J032281.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 2,4,12 Seq#:2; N Pos. 1,2,3,4

Seq#:3; N Pos. 1,2,3,4,7,8,9,10,11,12,15,20

Seq#:4; N Pos. 7,11
Seq#:5; N Pos. 3

Seq#:6; N Pos. 6,7,8,11,14,16

Seq#:6; N Pos. 6,7,8,11,14,16 Seq#:7; N Pos. 2,3,4,7,8

Seq#:8; N Pos. 2,3,8,12

Seq#:10; N Pos. 2,5,8,9,10,12,13,14

Seg#:11; N Pos. 5,11

Seq#:12; N Pos. 4

Seq#:32; N Pos. 4,5,6,7,8,10,12,13,14

VERIFICATION SUMMARY DATE: 06/14/2002 PATENT APPLICATION: US/10/032,281 TIME: 10:22:44

Input Set : A:\0399.1212-005.txt

Output Set: N:\CRF3\06142002\J032281.raw

L:45 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:49 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0 L:60 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:64 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2 L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0 L:75 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:79 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3 L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:90 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:94 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4 L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:105 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:109 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5 L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0 L:120 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:124 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6 L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:135 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:139 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7 L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:150 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:154 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:8 L:155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:176 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:180 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10 L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0 L:191 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:195 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11 L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:206 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:210 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12 L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:446 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:450 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:32 L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0